EXHIBIT "B"

FOREST ROAD SPECIFICATIONS

SUBGRADE WIDTH	SURFACED WIDTH	POINT TO POINT	STATION TO STATION	DRAINAGE
14 feet	12 feet	A to B	0+00 to 27+60	Ditch Required
14 feet	12 feet	C to D	0+00 to 3+80	Ditch Required
14 feet	12 feet	E to F	0+00 to 47+50	Ditch Required
16 feet	12 feet	E to G	0+00 to 11+85	Ditch Required
14 feet	12 feet	H to I	0+00 to 26+70	Ditch Required
14 feet	12 feet	J to K	0+00 to 21+05	Ditch Required
14 feet	12 feet	L to M	0+00 to 2+60	Ditch Required
14 feet	12 feet	G to N	0+00 to 9+60	Ditch Required
14 feet	12 feet	O to P	0+00 to 1+35	Ditch Required
14 feet	12 feet	Q to R	0+00 to 0+85	Ditch Required
14 feet	12 feet	H to S	0+00 to 39+40	Ditch Required
14 feet	12 feet	T to U	0+00 to 13+90	Ditch Required
14 feet	12 feet	V to W	0+00 to 3+80	Ditch Required
14 feet	12 feet	X to AA	0+00 to 3+35	Out Slope
14 feet	12 feet	BB to CC	0+00 to 2+65	Out Slope
14 feet	12 feet	DD to EE	0+00 to 24+90	Ditch Required
14 feet	12 feet	FF to GG	0+00 to 2+55	Out Slope
14 feet	12 feet	HH to II	0+00 to 12+45	Ditch Required
14 feet	12 feet	HH to II	12+45 to 14+35	Out Slope
14 feet	12 feet	JJ to KK	0+00 to 0+75	Out Slope
14 feet	12 feet	HH to LL	0+00 to 4+80	Ditch Required
14 feet	12 feet	MM to NN	0+00 to 9+95	Out Slope
14 feet	12 feet	OO to PP	0+00 to 38+40	Ditch Required
14 feet	12 feet	PP to QQ	0+00 to 26+90	Ditch Required
14 feet	12 feet	QQ to RR	0+00 to 12+50	Ditch Required
14 feet	12 feet	SS to TT	0+00 to 1+85	Out Slope

EXHIBIT "B"

FOREST ROAD SPECIFICATIONS

CLEARING. This work shall consist of clearing, removing, and disposing of all trees, snags, down timber, brush, surface objects, and protruding obstructions within the clearing limits.

Where clearing limits have not been staked, the clearing limits shall extend 10 feet back of the top of the cutslope and 5 feet out from the toe of the fill slope, or as directed by STATE. Clearing debris shall not be placed or permitted to remain in or under any road embankment sections. Clearing debris shall not be left lodged against standing trees.

All danger trees, leaners, and snags outside the clearing limits which could fall and hit the road shall be felled.

GRUBBING. This work shall consist of the removal or digging out of stumps and protruding objects.

All stumps shall be completely removed within the limits of required grubbing. Stumps overhanging cutslopes shall be removed. Grubbing debris shall not be placed or permitted to remain in or under any road embankment sections. Grubbing debris shall not be left lodged against standing trees. Grubbing classifications are as follows:

New construction - From the top of the cutslope to the toe of the fill.

Improvements and reconstructions - 4 feet back from the shoulder of the subgrade or ditch, whichever is widest, or as marked in the field.

CLEARING AND GRUBBING DISPOSAL. Scatter through openings in the timber outside of the cleared right-of-way, except areas where end-haul is required.

EXCAVATION. Excavation and grading shall not be done when weather and/or ground conditions are such that damage will result to existing subgrade or cause excessive erosion.

Excavation shall conform to STATE-engineered lines, grades, dimensions, and plans when provided.

All suitable excavated material shall be used where possible for the formation of fills, shoulders, and drainage structure backfills. Embankment materials shall be free of woody debris, brush, muck, sod, frozen material, and other deleterious materials. All fills and drainage structure backfills shall be machine compacted according to the specifications in Exhibit C.

Unless road design plans show otherwise, all roads shall be on a balanced cross section, except when the slope is over 50 percent, the road shall be on full bench for the width specified.

Excess excavation shall not be sidecast where material will enter a stream course or where material will accumulate in areas deemed a high-risk site by STATE.

ROAD WIDTH LIMITATIONS. PURCHASER shall obtain advance written approval from STATE to construct the road to a greater width than specified. Extra subgrade width shall be required for:

Fill Widening. Add to each fill shoulder 1 foot for fills 3 feet to 6 feet high; 2 feet for fills over 6 feet high.

Curve Widening. Widen the inside shoulder of all curves as follows: 400 divided by the radius of the curve equals the amount of extra width.

EXHIBIT “B”

FOREST ROAD SPECIFICATIONS

DRAINAGE

Ditch. Construct "V" ditch 2 feet wide and to a depth of 1 foot below subgrade. Subgrade shall be crowned at 4 to 6 percent.

Outslope. Road subgrade shall be outsloped at 4 to 6 percent.

TURNOUTS. Increase roadbed width an additional 8 feet for both subgrade and surfacing. Length shall be at least 25 feet, or as staked on the ground, plus 25-foot approaches at each end.

Location: Intervisible but not greater than 750 feet.

GRADING	Back Slopes	Fill Slopes
Rock	Vertical to 1/4:1	Not steeper
Common - side slopes 50% and over	1/2:1	than 1½:1
Common - side slopes less than 50%	3/4:1	
Common - turnpike (level) section	2:1	

Top of cutslope shall be rounded.

LANDINGS. Landings shall be constructed no less than 50 feet wide and no more than 70 feet wide. Surface is to be crowned for drainage, with general grade no more than 3 percent. Surface as shown on Exhibit C, Page 3.

EXHIBIT "B"

END-HAULING REQUIREMENTS

POINT TO POINT	STA. TO STA.	WASTE AREA LOCATION	WASTE AREA TREATMENT
A to B	12+45 to 20+10	4	1, 2
E to F	0+00 to 47+50	1	1, 2
H to I	8+75 to 24+30	2	1, 2
H to S	18+25 to 21+30	2	1, 2
PP to QQ	0+00 to 24+60	3	1, 2

End-Haul Areas General Requirements

Material shall not be intentionally side cast.

Clearing and grubbing debris shall be end-hauled.

When blasting is required, it shall be accomplished using timing devices, delayed charges, low intensity shots, or other suitable means to contain as much material as possible within the road prism.

Containment

Full containment: The amount of material lost over the outside edge of the road shall not exceed 6 inches in depth measured perpendicular to the natural ground slope. Pioneer excavation shall be removed by digging, loading, and hauling rather than by pushing or scraping methods.

Trees and stumps may have up to 12 inches of material directly above them. Any amount of material exceeding the containment requirements shall be removed by whatever means necessary and end-hauled to a designated waste area.

Waste Area Location

As shown on Exhibit A and as marked in the field.

Waste Area Treatment

(1) Deposit at waste area, spread evenly, compact, and provide adequate drainage.

(2) Pile woody debris separate from other waste material.

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
A to B	0+00	Remove stump from outside of existing road and construct 50 foot radius curve right.
	1+20	Install Culvert No 49 (18" x 36') across existing road. Spot rock with 1-1/2" –0 crushed rock from stockpile.
	2+30	End 50 foot radius curve.
	3+70	Install Culvert No. 50 (18" x 32').
	8+70	Install Culvert No. 51 (18" x 32').
	12+25	Install Culvert No. 52 (18" x 30'). Start endhaul.
	20+10	Point C. Stop endhaul.
	27+60	Point B. Construct Landing.
C to D	0+00	Junction.
	3+80	Point D. Construct landing.
E to F	0+00	Begin road improvement. All excavated material not used for fill and subgrade construction is to be endhauled to Waste Area No.1. Grub stumps from island at Sunday Creek Junction. Place suitable endhaul material to construct junction.
	2+10	Install Culvert No. 1 (18" x 32').
	6+05	Remove Puncheon and install Culvert No. 1A (24" x 50').
	9+95	Install Culvert No. 2 (24" x 40').
	14+10	Remove puncheon. Install Culvert No. 3 (36" x 60'). Machine place 20 cy riprap at inlet and 20 cy riprap at outlet.
	18+35	Install Culvert No. 4 (18" x 50').
	23+85	Remove log puncheon. Install Culvert No. 5 (24" x 70').
	27+40	Construct landing.
	28+90	Install Culvert No. 6 (18" x 32').
	33+40	Remove log puncheon. Install Culvert No. 7 (30" x 70'). Machine place 20 cy riprap at inlet and 20 cy riprap at outlet.
	36+35	Remove log puncheon Install Culvert No. 8 (24" x 50'). Machine place 20 cy riprap at inlet.

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
E to F	39+90	Construct landing.
	41+70	Remove log puncheon. Install Culvert No. 9 (30" x 60'). Machine place 20 cy riprap at inlet and 20 cy riprap at outlet.
	44+20	Install Culvert No. 10 (18" x 38' with 21" x 20' ½ round).
	46+55	Install Culvert No. 11 (18" x 36' with 21" x 20' ½ round).
	47+50	Point F. End improvement.
E to G	7+90	Install Culvert No 12 (24" x 42'). Machine place 10 cy riprap at inlet and 10 cy riprap at outlet.
	10+85	Install Culvert No. 13 (42" x 50'). Machine place 20 cy riprap at inlet and 20 cy riprap at outlet.
	11+85	Point G
G to N	0+00	Construct ditchout left side.
	8+20	Saddle; construct ditch off left and right.
	9+60	Point N. Construct Landing.
H to I	0+00	Construct two-way junction.
	1+10	Fill old railroad through cut left with excess excavation.
	3+75	All excavation from this point ahead not used in subgrade and fill construction is to be endhauled to the old borrow pits at Sta 5+10 and Sta 25+25 and compacted.
	4+10	Remove log puncheon. Install Culvert No. 14 (18" x 32' with 21" x 20' ½ Round).
	5+10	Borrow Pit. Clear posted area to upper road.
	7+40	Construct landing.
	8+75	Install Culvert No. 15 (18" x 32'). Begin widening through cut left side. Endhaul approximately 1300 cy to Sta 13+65 for fill.
	13+65	Remove approximately 6000 cy fill and log puncheon. Install Culvert No. 16 (30" x 135'). Machine place 40 cy riprap at inlet and 20 cy at outlet. Endhaul approximately 1300 cy unsuitable material to Waste Area #2 and compact. Use upper level of borrow pit at Sta 5+10 for fill material if needed.
	14+50	End fill reconstruction.

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
H to I	14+95	Begin widening through cut left. Endhaul approximately 745 cy to Sta 25+25 and compact.
	17+00	End through cut widening.
	18+45	Install Culvert No. 17 (18" x 30' with 21" x 20' ½ Round.)
	19+25	Begin widening right side. Endhaul approximately 1100 cy to Sta 25+25 and compact.
	24+30	Install Culvert No. 18 (18" x 30' with 21" x 20' ½ round.)
	25+25	Old borrow pit. Place unsuitable endhaul material.
	26+70	Point I. Construct landing.
J to K	0+00	Begin construction.
	3+05	Construct ditch off left.
	5+35	Construct ditch off left and right.
	8+55	Construct ditch off left and right.
	20+20	Construct ditch off left and right before landing.
	21+05	Point K. Construct Landing.
L to M	0+00	Ditch left side and construct ditch out right to draw.
	2+60	Point M. Construct Landing.
O to P	0+00	Ditch water off left from main road.
	1+35	Point P. Construct landing. Ditch water off left side.
Q to R	0+85	Point R. Construct landing.
H to S	2+20	Install Culvert No. 19 (18"x 32').
	4+05	Install Culvert No. 20 (18"x 32').
	6+00	Point T
	8+30	Install Culvert No. 21 (18"x 32').

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
H to S	10+80	Install Culvert No. 22 (18" x 30').
	16+80	Install Culvert No. 23 (24" x 44').
	18+25	Start endhaul.
	19+70	Install Culvert No. 24 (18" x 30').
	21+30	Stop endhaul.
	24+60	Install Culvert No. 25 (24" x 44').
	27+60	Point DD.
	29+10	Point BB. Install Culvert No. 26 (24" x 50').
	33+50	Install Culvert No. 27 (18" x 40').
	34+10	Remove log puncheon. Install Culvert No. 28 (24" x 40').
	35+85	Point X.
	39+40	Point S. Construct landing.
T to U	1+15	Install Culvert No. 30 (18" x 30').
	4+60	Install Culvert No. 31 (18" x 30').
	7+65	Install Culvert No. 32 (24" x 44').
	9+00	Install Culvert No. 33 (18" x 40').
	9+50	Point V.
	13+90	Point U. Construct landing.
V to W	2+60	Install Culvert No. 34 (18" x 38').
	3+80	Point W. Construct landing.
X to AA	1+25	Install Culvert No. 29 (18" x 36').
	3+35	Point AA. Construct landing.
BB to CC	2+65	Construct landing.

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
DD to EE	0+00	Ditch water left to Culvert No. 26.
	2+00	Begin drift section.
	4+00	End drift section. Install Culvert No. 35 (18” x 40’).
	7+50	Point MM.
	11+65	Point HH.
	19+35	Point FF.
	24+90	Point EE. Construct landing.
FF to GG	2+55	Construct landing.
HH to II	0+00	Three-way junction.
	5+15	Install Culvert No. 36 (18” x 32’).
	6+70	Install Culvert No. 37 (18” x 32’).
	12+45	Install Culvert No. 38 (18” x 36’).
	13+05	Point JJ
	14+35	Point II. Construct landing.
JJ to KK	0+75	Construct landing.
HH to LL	0+00	Junction.
	4+20	Ditch water off left and right.
	4+80	Point LL. Construct landing.
MM to NN	9+95	Point NN. Construct landing.
OO to PP	25+00	Install Culvert No. 39 (18” x 36’).
	38+40	Point PP. Install Culvert No. 40 (18” x 34’).

EXHIBIT "B"

ROAD CONSTRUCTION AND IMPROVEMENT INSTRUCTIONS

SEGMENT	STATION	WORK DESCRIPTION
PP to QQ	0+00	Start endhaul.
	2+45	Remove log puncheon. Install Culvert No. 41 (18" x 44'). Machine place 12 cy riprap at inlet and 12 cy riprap outlet.
	9+50	Remove log puncheon. Install Culvert No. 42 (24" x 70').
	14+05	Install Culvert No. 43 (18" x 32').
	17+95	Remove log puncheon. Install Culvert No. 44 (24" x 70' with 30' ½ round.). Machine place 12 cy riprap at inlet.
	20+80	Install Culvert No. 45 (18" x 32').
	24+60	Install Culvert No. 46 (18" x 30').
	26+90	Point QQ.
QQ to RR	0+00	Begin road construction.
	1+20	Install Culvert No. 47 (18" x 32').
	4+80	Install Culvert No. 48 (18" x 30').
	8+35	Construct ditchout left.
	10+35	Property Line.
	10+70	Point SS.
	12+50	Point RR. Construct landing.
SS to TT	1+85	Point TT. Construct landing.

EXHIBIT "C"

ROAD SURFACING

TYPE OF ROCK	SIZE OF ROCK	COMPACTED DEPTH	POINT TO POINT	STATION TO STATION	APPROX. TOTAL TRUCK MEASURE VOLUME
Crushed	4”-0	8”	A to B	0+00 to 27+60	1215 cy
Crushed	4”-0	8”	C to D	0+00 to 3+80	168 cy
Crushed	4”-0	8”	E to F	0+00 to 47+50	2090 cy
Crushed	4”-0	Spot Rock	E to G	0+00 to 11+85	522 cy
Crushed	4”-0	8”	G to N	0+00 to 9+60	423 cy
Crushed	4”-0	8”	H to I	0+00 to 26+70	1175 cy
Crushed	4”-0	8”	H to S	0+00 to 39+40	1734 cy
Crushed	4”-0	8”	J to K	0+00 to 21+05	927 cy
Crushed	4”-0	8”	L to M	0+00 to 2+60	115 cy
Crushed	4”-0	8”	O to P	0+00 to 1+35	60 cy
Crushed	4”-0	8”	Q to R	0+00 to 0+85	38 cy
Crushed	4”-0	8”	T to U	0+00 to 13+90	612 cy
Crushed	4”-0	8”	V to W	0+00 to 3+80	168 cy
Crushed	4”-0	8”	X to A	0+00 to 3+35	148 cy
Crushed	4”-0	8”	BB to CC	0+00 to 2+65	117 cy
Crushed	4”-0	8”	DD to EE	0+00 to 24+90	1096 cy
Crushed	4”-0	8”	FF to GG	0+00 to 2+55	113 cy
Crushed	4”-0	8”	HH to II	0+00 to 14+35	632 cy
Crushed	4”-0	8”	HH to LL	0+00 to 4+80	212 cy
Crushed	4”-0	8”	JJ to KK	0+00 to 0+75	33 cy
Crushed	4”-0	8”	MM to NN	0+00 to 9+95	438 cy
Crushed	4”-0	Spot Rock	OO to PP	0+00 to 38+40	50 cy
Crushed	4”-0	8”	PP to QQ	0+00 to 26+90	1184 cy
Crushed	4”-0	8”	QQ to RR	0+00 to 12+50	550 cy
Crushed	4”-0	8”	SS to TT	0+00 to 1+85	82 cy

EXHIBIT "C"

ROAD SURFACING

CURVE WIDENING:		COMPACTED DEPTH	NO. OF CURVES	POINT TO POINT	APPROX. TOTAL TRUCK MEASURE VOLUME
TYPE OF ROCK	SIZE OF ROCK				
Crushed	4”-0	8”	8	A to B	96 cy
Crushed	4”-0	8”	1	C to D	10 cy
Crushed	4”-0	8”	12	E to F	120 cy
Crushed	4”-0	8”	3	G to N	36 cy
Crushed	4”-0	8”	12	H to I	80 cy
Crushed	4”-0	8”	11	H to S	132 cy
Crushed	4”-0	8”	6	J to K	60 cy
Crushed	4”-0	8”	4	T to U	48 cy
Crushed	4”-0	8”	1	V to W	12 cy
Crushed	4”-0	8”	1	X to AA	12 cy
Crushed	4”-0	8”	1	BB to CC	12 cy
Crushed	4”-0	8”	7	DD to EE	84 cy
Crushed	4”-0	8”	2	HH to II	20 cy
Crushed	4”-0	8”	3	MM to NN	36 cy
Crushed	4”-0	8”	7	PP to QQ	70 cy
Crushed	4”-0	8”	3	QQ to RR`	36 cy
TURNOUTS:			**NO. OF T.O.**	**POINT TO POINT**	
Crushed	4”-0	8”	8	A to B	176 cy
Crushed	4”-0	8”	1	C to D	22 cy
Crushed	4”-0	8”	7	E to F	154 cy
Crushed	4”-0	8”	3	G to N	66 cy
Crushed	4”-0	8”	4	H to I	88 cy
Crushed	4”-0	8”	6	H to S	132 cy
Crushed	4”-0	8”	6	J to K	132 cy
Crushed	4”-0	8”	1	L to M	22 cy

EXHIBIT "C"

ROAD SURFACING

TURNOUTS:		COMPACTED DEPTH	NO. OF TURNOUTS	POINT TO POINT	APPROX. TOTAL TRUCK MEASURE VOLUME
TYPE OF ROCK	SIZE OF ROCK				
Crushed	4”-0	8”	3	T to U	66 cy
Crushed	4”-0	8”	1	V to W	22 cy
Crushed	4”-0	8”	1	X to AA	22 cy
Crushed	4”-0	8”	1	BB to CC	22 cy
Crushed	4”-0	8”	4	DD to EE	88 cy
Crushed	4”-0	8”	1	FF to GG	22 cy
Crushed	4”-0	8”	2	HH to II	44 cy
Crushed	4”-0	8”	1	HH to LL	22 cy
Crushed	4”-0	8”	3	MM to NN	66 cy
Crushed	4”-0	8”	4	PP to QQ	88 cy
Crushed	4”-0	8”	2	QQ to RR	44 cy
LANDINGS:			**NO. OF LDGS.**	**LOCATION**	
Crushed	4”-0	8”	1	Point B	100 cy
Crushed	4”-0	8”	1	Point D	100 cy
Crushed	4”-0	8”	2	E to F	200 cy
Crushed	4”-0	8”	2	H to I	200 cy
Crushed	4”-0	8”	1	Point K	100 cy
Crushed	4”-0	8”	1	Point M	100 cy
Crushed	4”-0	8”	1	Point N	100 cy
Crushed	4”-0	8”	1	Point P	100 cy
Crushed	4”-0	8”	1	Point R	100 cy
Crushed	4”-0	8”	1	Point S	100 cy
Crushed	4”-0	8”	1	Point U	100 cy
Crushed	4”-0	8”	1	Point W	100 cy
Crushed	4”-0	8”	1	Point AA	100 cy
Crushed	4”-0	8”	1	Point CC	100 cy
Crushed	4”-0	8”	1	Point EE	100 cy

EXHIBIT "C"

ROAD SURFACING

LANDINGS:		COMPACTED DEPTH	NO. OF LDGS.	POINT TO POINT	APPROX. TOTAL TRUCK MEASURE VOLUME
TYPE OF ROCK	SIZE OF ROCK				
Crushed	4”-0	8”	1	Point GG	100 cy
Crushed	4”-0	8”	1	Point II	100 cy
Crushed	4”-0	8”	1	Point KK	100 cy
Crushed	4”-0	8”	1	Point LL	100 cy
Crushed	4”-0	8”	1	Point NN	100 cy
Crushed	4”-0	8”	1	Point RR	100 cy
Crushed	4”-0	8”	1	Point TT	100 cy
JUNCTIONS:			**NO. OF JCTS.**	**LOCATION**	
Crushed	4”-0	8”	1	Point A	12 cy
Crushed	4”-0	8”	1	Point C	36 cy
Crushed	4”-0	8”	1	Point E	36 cy
Crushed	4”-0	8”	1	Point G	36 cy
Crushed	4”-0	8”	1	Point H	36 cy
Crushed	4”-0	8”	1	Point J	36 cy
Crushed	4”-0	8”	1	Point L	36 cy
Crushed	4”-0	8”	1	Point O	36 cy
Crushed	4”-0	8”	1	Point Q	36 cy
Crushed	4”-0	8”	1	Point T	12 cy
Crushed	4”-0	8”	1	Point V	12 cy
Crushed	4”-0	8”	1	Point X	12 cy
Crushed	4”-0	8”	1	Point BB	12 cy
Crushed	4”-0	8”	1	Point DD	36 cy
Crushed	4”-0	8”	1	Point FF	36 cy
Crushed	4”-0	8”	1	Point HH	36 cy
Crushed	4”-0	8”	1	Point JJ	36 Cy
Crushed	4”-0	8”	1	Point MM	36 cy
Crushed	4”-0	8”	1	Point SS	24 cy

EXHIBIT "C"

ROAD SURFACING

MISC:		POINT TO POINT	LOCATION	APPROX. TOTAL TRUCK MEASURE VOLUME
TYPE OF ROCK	SIZE OF ROCK			
Riprap	24”-12”	E to F	14+10	40 cy
Riprap	24”-12”	E to F	33+40	40 cy
Riprap	24”-12”	E to F	36+35	20 cy
Riprap	24”-12”	E to F	41+70	40 cy
Riprap	24”-12”	E to G	7+90	20 cy
Riprap	24”-12”	E to G	10+85	40 cy
Riprap	24”-12”	H to I	13+65	60 cy
Riprap	24”-12”	PP to QQ	2+45	24 cy
Riprap	24”-12”	PP to QQ	17+95	12 cy

Roads shall be uniformly graded and approved by STATE prior to rocking. For typical cross section, see Forestry Department Drawing Nos. 351-C and 351-D at the Forestry Department district office.

On road segments with multiple gradations of crushed rock, the coarser gradation shall be spread and processed prior to spreading the finer gradation rock.

EXHIBIT "C"

CRUSHED ROCK SPECIFICATIONS

Materials. The material shall be fragments of rock or other hard, durable particles crushed to the required size and a filler of finely crushed stone, sand, or other finely divided mineral matter. The material shall be free from vegetation and lumps of clay.

Quality and Grading Requirements. The stone base materials shall be crushed rock, including sand.

River gravel shall not be used.

The material from which base material is produced or manufactured shall conform to the general requirements of Section 2630 of the "Standard Specifications for Highway Construction" prepared by the Highway Division, Oregon Department of Transportation, and shall meet the following test requirements:

Hardness - Test Method AASHTO T 96 35% Maximum

Durability - Test Method ODOT TM 208
Passing No. 20 Sieve: 30% Maximum
Sediment Height: 3" Maximum

For the purpose of crushing rock specified under the projects in the section titled, “Project Work,” PURCHASER shall utilize a three-stage rock crusher, or equivalent, unless otherwise approved by STATE.

A sample of the rock shall be supplied to STATE for testing and approval prior to crushing. The rock crusher must be calibrated to produce rock as specified in Exhibit C. Rock must be accepted by STATE prior to any production by the crusher. Any rock crushed prior to such acceptance shall not be credited to the required rock quantity. Rock is to be stockpiled according to STATE instructions. Crushing equipment shall not be removed until all stockpiling and measurements have been accepted by STATE.

The rock crusher shall be calibrated to produce rock as specified in Exhibit C. Prior to the commencement of production crushing, PURCHASER shall sample, test, and provide rock test results meeting STATE specifications. STATE may then sample and test crushed rock for approval to proceed. PURCHASER shall take one sample of each 2,000 cubic yards of crushed rock material produced thereafter, using approved AASHTO sampling procedures. PURCHASER shall submit samples to a certified laboratory or shall perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures. Prior to testing, each sample shall be split, making one-half of the sample, with proper identification, available for testing by STATE. Each sample and the results of PURCHASER testing shall be made available to STATE within 24 hours of sampling. Any rock crushed prior to STATE approval to proceed shall not be credited to the required rock quantity. Any subsequent rock tests not meeting STATE specifications shall be reason for rejection of that portion of crushed rock produced after that test and shall not be credited to the required rock quantity. STATE may sample the crushed rock at any time during the operation. Results of STATE’s tests shall prevail over all other test results.

EXHIBIT "C"

CRUSHED ROCK SPECIFICATIONS

Grading Requirements

For 3/4"-0"	Passing	1" sieve	100%
	Passing	3/4" sieve	90-100%
	Passing	3/8" sieve	55-75%
	Passing	1/4" sieve	40-60%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 1½"-0"	Passing	2" sieve	100%
	Passing	1½" sieve	95-100%
	Passing	3/4" sieve	55-75%
	Passing	1/4" sieve	35-50%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 2"-0"	Passing	2½" sieve	100%
	Passing	2" sieve	95-100%
	Passing	1" sieve	55-75%
	Passing	1/4" sieve	30-45%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 2½"-0"	Passing	3" sieve	100%
	Passing	2½" sieve	95-100%
	Passing	1¼" sieve	55-75%
	Passing	1/4" sieve	30-45%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 3”-0”	Passing	3½” sieve	100%
	Passing	3” sieve	95-100%
	Passing	1½” sieve	55-75%
	Passing	1/4” sieve	30-45%

Of the fraction passing 1/4" sieve, 40% to 60% shall pass the No. 10 sieve.

For 4"-0"	Passing	4½” sieve	100%
	Passing	4" sieve	95-100%
	Passing	2" sieve	55-75%
	Passing	1/4" sieve	30-45%
For Jaw-Run	Passing	6" sieve	100%
	Passing	3” sieve	45-65%
For 6"-0" Pit-Run	Passing	10" sieve	100%
	Passing	6" sieve	65%

For 12”-6” Riprap — 50 percent or more of the material shall measure at least 12 inches in one dimension. Material shall be clean, well graded, and free of 2”-0” fines.

EXHIBIT "C"

CRUSHED ROCK SPECIFICATIONS

For 24”-12” Riprap — 50 percent or more of the material shall measure at least 24 inches in one dimension. Material shall be clean, well graded, and free of 2”-0” fines.

Control of gradation shall be by visual inspection by STATE.

The referenced sieve shall have square openings as set forth in AASHTO M 92, Woven Cloth Series. The determinations of size and gradings shall be as set forth in AASHTO T 27.

ROCK ACCOUNTABILITY

The rock shall meet the quality and size specifications in Exhibit C. A sample of the rock shall be supplied to STATE for testing and approval prior to rocking. PURCHASER shall obtain subgrade approval from STATE prior to rocking. Rocking shall be limited to periods when weather conditions are acceptable to STATE and when sediments will not enter streams.

Rock accountability shall be determined by depth measurement. STATE shall be given 24 hours' notice prior to rocking.

Depth Measurement. Rock shall be spread and compacted according to the depths specified in Exhibit C. Truck measure volumes are given, but shall not limit the amount of rock spread.

Depth shall be determined in the most compacted area of the surface cross section. If additional rock is required because of insufficient depth, it shall be added by truck measure to those areas that were slighted. The conversion from compacted yardage to truck yardage is 1.3 multiplied by the compacted yardage equals truck yardage.

The depth of compacted aggregates shall not vary more than 1 inch from the depth specified in Exhibit C. The average depth for each road segment shall be the specified depth or greater.

Junctions shall have a surfaced area of at least 20 square yards each at the compacted depths specified in Exhibit C.

Turnouts shall have a surfaced area of at least 70 square yards each at the depths shown in Exhibit C.

Landings shall have a surfaced area of at least 280 square yards each at the depths shown in Exhibit C.

Curve Surfacing. Extra surface width shall be required for the inside of all curves as follows: 400 divided by the radius of the curve equals the amount of extra width to be surfaced at the depths shown in Exhibit C.

EXHIBIT "C"

COMPACTION AND PROCESSING REQUIREMENTS

Subgrade. Subgrade surfaces of the road segments listed below shall be graded and compacted prior to rocking. Compaction shall be accomplished by traveling all surfaces from shoulder to shoulder until visible deformation ceases, or in the case of a sheepsfoot roller, the roller "walks out." At least 3 passes shall be made over the entire width and length of the road. A pass is defined as traveling a road section in one direction and then back over that same section again. Compaction shall be accomplished by using the approved equipment listed below or others approved by STATE:

Subgrade shall be crowned at 4 to 6 percent unless otherwise specified.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
A to B, C to D, J to K, L to M, G to N, Q to R, T to V, V to W, X to AA, BB to CC, DD to EE, FF to GG, HH to II, JJ to KK, HH to LL, MM to NN, QQ to RR, SS to TT, E to F, H to I, O to P, H to S, PP to QQ	1

Fills. Embankments and fills shall be placed in (approximately) horizontal layers not more than 8 inches in depth. Each layer shall be separately, and thoroughly, compacted. Compaction equipment shall be operated over the entire width of each layer until visible deformation of the layers ceases or, in the case of a sheepsfoot roller, the roller "walks out." At least of 3 passes shall be made over the entire width and length of each layer. A pass is defined as traveling a fill layer in one direction and then back over that same layer again.

Placing individual rocks or boulders with more depth than the allowed layer thickness shall be permitted, provided the embankment will accommodate them. Such rocks and boulders shall be at least 6 inches below the subgrade. They shall be carefully distributed and the voids filled with finer material, forming a dense and compacted mass. Compaction shall be accomplished by using the approved equipment listed below or others approved by STATE:

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All Segments	2, 3

Crushed Rock. The rock shall be uniformly mixed and spread in layers on the approved roadbed. Each layer of crushed rock shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted in layers not to exceed 6 inches in depth. When more than 1 layer is required, each shall be shaped and compacted before the succeeding layer is placed. Any irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing material until the surface is smooth and uniform. Each layer shall be compacted with a minimum of 3 passes over the entire width and length of the road. A pass is defined as traveling a road section in one direction and then back over that same section again. Compaction shall be accomplished by using the approved equipment listed below or others approved by STATE:

Rock shall be compacted and processed during the same project period it is spread, unless otherwise approved in writing by STATE.

Rock shall be crowned at 4 to 6 percent unless otherwise specified.

ROAD SEGMENT	COMPACTION EQUIPMENT OPTIONS
All Segments	1

EXHIBIT "C"

COMPACTION EQUIPMENT OPTIONS

(1) Vibratory Rollers. The drum shall have a smooth surface, a diameter not less than 48 inches, a width not less than 58 inches, and a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 VPM, corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 VPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled and operated at speeds ranging from 0.9 miles to 1.8 miles per hour, as directed by STATE.

(2) Tampingfoot Compactors. Tampingfoot or sheepsfoot compactors shall exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet. The compactor shall cover a minimum width of 60 inches per pass and weigh a minimum of 16,000 pounds.

(3) Rubber-Tired Skidders. A rubber-tired skidder weighing a minimum of 20,000 pounds shall be operated over the fill layers so that the entire layered surface comes in contact with the tires. Skidders with oversized tires (high flotation) are not acceptable for compaction.

State Timber Sale Contract
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EXHIBIT "D"

ROCK PIT DEVELOPMENT AND USE

(1) PURCHASER shall conduct the operations relative to the disposal of waste material in such manner that silt, rock, debris, dirt, or clay shall not be washed, conveyed, or otherwise deposited in any stream. All waste shall be deposited at an approved "waste disposal site."

(2) Where overburden removal limits have not been staked, they shall extend for a distance of at least 20 feet beyond the developed rock source. Overburden and woody debris shall be hauled to a designated waste area. Overburden shall be spread evenly, grass seeded, and compacted at the waste area and woody debris stacked separately. Prior to drilling or rock removal, completion of overburden removal shall be approved in writing by STATE.

(3) The rock pit floor shall be developed to provide drainage away from the rock pit. Rock pit drainage ditches shall be developed and maintained. Benches shall be constructed at intervals of 40 feet or less in height and shall be a minimum of 20 feet in width. Any gravel or talus slopes shall be left with a working face at an angle of 60 degrees or less. There shall be a minimum of 1 bench with an access road to it. Said bench shall be easily accessible with tractors.

(4) Blasting shall be accomplished using timing devices, delay charges, low intensity shots, or other suitable means to contain as much material as possible in the rock pit prism.

(5) Pit face shall be developed in a uniform manner.

(6) Oversized material that is produced or encountered during development shall be broken down and utilized for crushing or for riprap.

(7) PURCHASER shall prepare a written development plan for the pit area. The plan shall be submitted to STATE for approval prior to conducting any operation in the pit area.

The plan shall include, but not be limited to:

(a) Location of benches and roads to benches.

(c) Disposal site for debris and overburden.

(8) Upon completion of use, the pit site and access roads shall be left in a condition free from overburden and debris. Rock pit roads shall be waterbarred to provide drainage and shall be blocked as directed by STATE.

EXHIBIT "E"

CULVERT SPECIFICATIONS

All culvert materials shall be furnished and installed by PURCHASER, unless otherwise specified in the contract. Culverts shall be constructed of corrugated galvanized iron or steel, aluminized steel, or polyethylene and shall conform to the material and fabricating requirements of Sections 2410 and 2420 of the "Standard Specifications for Highway Construction" prepared by the Highway Division of the Oregon State Department of Transportation. Corrugation types and shapes other than those meeting the above minimum Highway requirements, shall be approved in writing by STATE.

Culverts shall be located according to the alignment and grade as shown on the Plan and Profile, and/or as staked in the field, or as stipulated in special instructions.

Culvert grade shall slope away from ditch grade at least 2 percent unless otherwise specified.

Culverts less than 36 inches in diameter shall be installed with the lock seam on the inlet end placed within 45 degrees of the bottom of the trench.

The foundation and trench walls for all culverts shall be free from logs, stumps, limbs, stones, and other objects which would dent or damage the pipe. The culvert trench shall be excavated 3 pipe diameters wide to permit compaction and working on each side of pipe. Tamping shall be done in 6-inch lifts, 1 pipe diameter each side of the pipe to 95 percent density or over. Bedrock shall be excavated as required to provide a uniform foundation for the full length of the culvert.

Backfill shall consist of granulated material, crushed rock, or job-excavated soil free of stumps, limbs, rocks, or other objects which would damage the pipe.

Transporting of the pipe shall be done carefully. Dragging or allowing free fall from trucks or into trenches shall not be permitted.

Joining shall be done with bands of like material and corrugations. Manufacturers' instructions shall be followed for prefabricated pipe assembly.

Polyethylene joints shall be made with split couplings, corrugated to engage the pipe corrugations, and shall engage a minimum of 4 corrugations, 2 on each side of the pipe joint.

A manufacturer's certification that the product was manufactured, tested, and supplied in accordance with this specification shall be furnished to the Project Engineer upon request.

Minimum height of cover over top of culvert to subgrade when road is to be rocked shall be as follows: 12" for galvanized or aluminized steel culverts 18” to 36”, 18” for galvanized or aluminized steel culverts 42” to 96”, and 12" for polyethylene culverts (add 6" for roads which will not be rocked). Minimum vertical cover for other steel designs shall be as specified by STATE.

EXHIBIT "E"

CULVERT SPECIFICATIONS

Lengths of individual culvert sections shall be not less than 10 feet, unless otherwise provided for in special instructions.

The ends of each culvert shall be free of logs and debris which would restrict the free flow of water. The intake end of relief culverts shall be provided with a sediment catching basin 3 feet in diameter at the bottom. The outlet end of any culvert which would allow water to erode embankment soil shall be provided with a half round or other approved slope protection device. Construct the lead-off ditch away from the culvert outlet where the slope gradient restricts the free flow of water.

Following are the minimum standard gauges for pipe and coupling bands. Some culverts may require different gauges and may be found in the culvert listing.

	Steel Pipe Gauge		Band Widths (")			Hugger Band Widths (")	
Dia.	Galvanized or Aluminized	Band Gauges	Annular	Helical	Dimpled	Annular	Helical
12-15	16	16	7	12	12	13 1/8	10 1/2
18-24	16	16	12	12	12	13 1/8	10 1/2
30-36	16	16	12	12	*12	13 1/8	10 1/2
42	14	16	12	12	NA	13 1/8	10 1/2
48	14	16	24	24	NA	13 1/8	10 1/2
54	14	16	24	24	NA	13 1/8	10 1/2
60	12	16	24	24	NA	13 1/8	10 1/2
66-72	12	16	24	24	NA	13 1/8	10 1/2
78	12	16	24	24	NA	13 1/8	10 1/2
84	12	16	24	24	NA	14 3/4	10 1/2
90-120	12	16	26	26	NA	NA	NA

Galvanized or aluminized steel culverts larger than 60” in diameter shall have 3” x 1” corrugations.

Polyethylene culverts shall be double walled and meet the requirements of AASHTO M-294-901, Type S.

EXHIBIT "E"

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	ROAD SEGMENT POINT TO POINT	STATION
1	18	32	E to F	2+10
1A	24	50	E to F	6+05
2	24	40	E to F	9+95
3	36	60	E to F	14+10
4	18	50	E to F	18+35
5	24	70	E to F	23+85
6	18	32	E to F	28+90
7	30	70	E to F	33+40
8	24	50	E to F	36+35
9	30	60	E to F	41+70
10	18	38	E to F	44+20
Half Round	21	20	E to F	44+20
11	18	36	E to F	46+55
Half Round	21	20	E to F	46+55
12	24	42	E to G	7+90
13	42	50	E to G	10+85
14	18	32	H to I	4+10
Half Round	21	20	H to I	4+10
15	18	32	H to I	8+75
16	30	135	H to I	13+65
17	18	30	H to I	18+45
Half Round	21	20	H to I	18+45
18	18	30	H to I	24+30
Half Round	21	20	H to I	24+30
19	18	32	H to S	2+20
20	18	32	H to S	4+05
21	18	32	H to S	8+30

EXHIBIT "E"

CULVERT LIST

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	ROAD SEGMENT POINT TO POINT	STATION
22	18	30	H to S	10+80
23	24	44	H to S	16+80
24	18	30	H to S	19+70
25	24	44	H to S	24+60
26	24	50	H to S	29+10
27	18	40	H to S	33+50
28	24	40	H to S	34+10
29	18	36	X to AA	1+25
30	18	30	T to U	1+15
31	18	30	T to U	4+60
32	24	44	T to U	7+65
33	18	40	T to U	9+00
34	18	38	V to W	2+60
35	18	40	DD to EE	4+00
36	18	32	HH to II	5+15
37	18	32	HH to II	6+70
38	18	36	HH to II	12+45
39	18	36	OO to PP	25+00
40	18	34	OO to PP	38+40
41	18	44	PP to QQ	2+45
42	24	70	PP to QQ	9+50
43	18	32	PP to QQ	14+05
44	24	70	PP to QQ	17+25
Half Round	30	30	PP to QQ	17+25
45	18	32	PP to QQ	20+80
46	18	30	PP to QQ	24+60
47	18	32	QQ to RR	1+20
48	18	30	QQ to RR	4+80

EXHIBIT "E"

CULVERT SPECIFICATIONS

CULVERT NO.	DIAMETER (Inches)	LENGTH (Feet)	ROAD SEGMENT POINT TO POINT	STATION
49	18	36	A to B	1+20
50	18	32	A to B	3+70
51	18	32	A to B	8+70
52	18	30	A to B	12+25

The intake ends of culverts shall be marked by driving or placing steel posts within 6 inches of the downgrade side. Posts shall be painted with a rust-resistant paint and be a minimum of 5 feet long, with the spade driven 2 feet into the ground.

Culverts 36 inches in diameter or larger shall have 1:1 beveled inlets.

Tamping is required.

Half rounds shall be installed within 72 hours of culvert installation, unless otherwise approved in writing by STATE.

EXHIBIT "E"

TYPICAL HALF ROUND CULVERT INSTALLATION
(no scale)

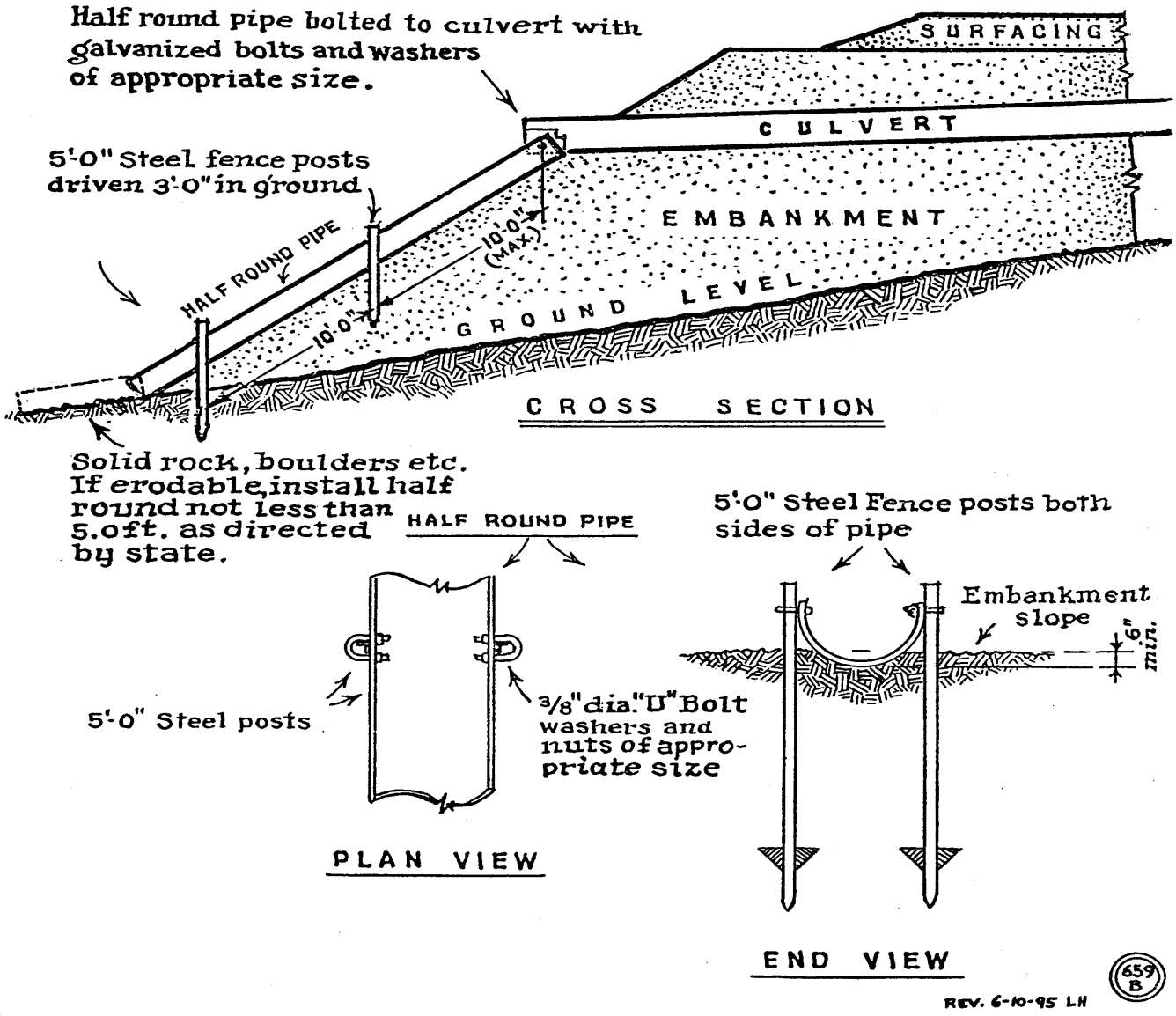

EXHIBIT “E”

TYPICAL EMBEDDED ENERGY DISSIPATOR

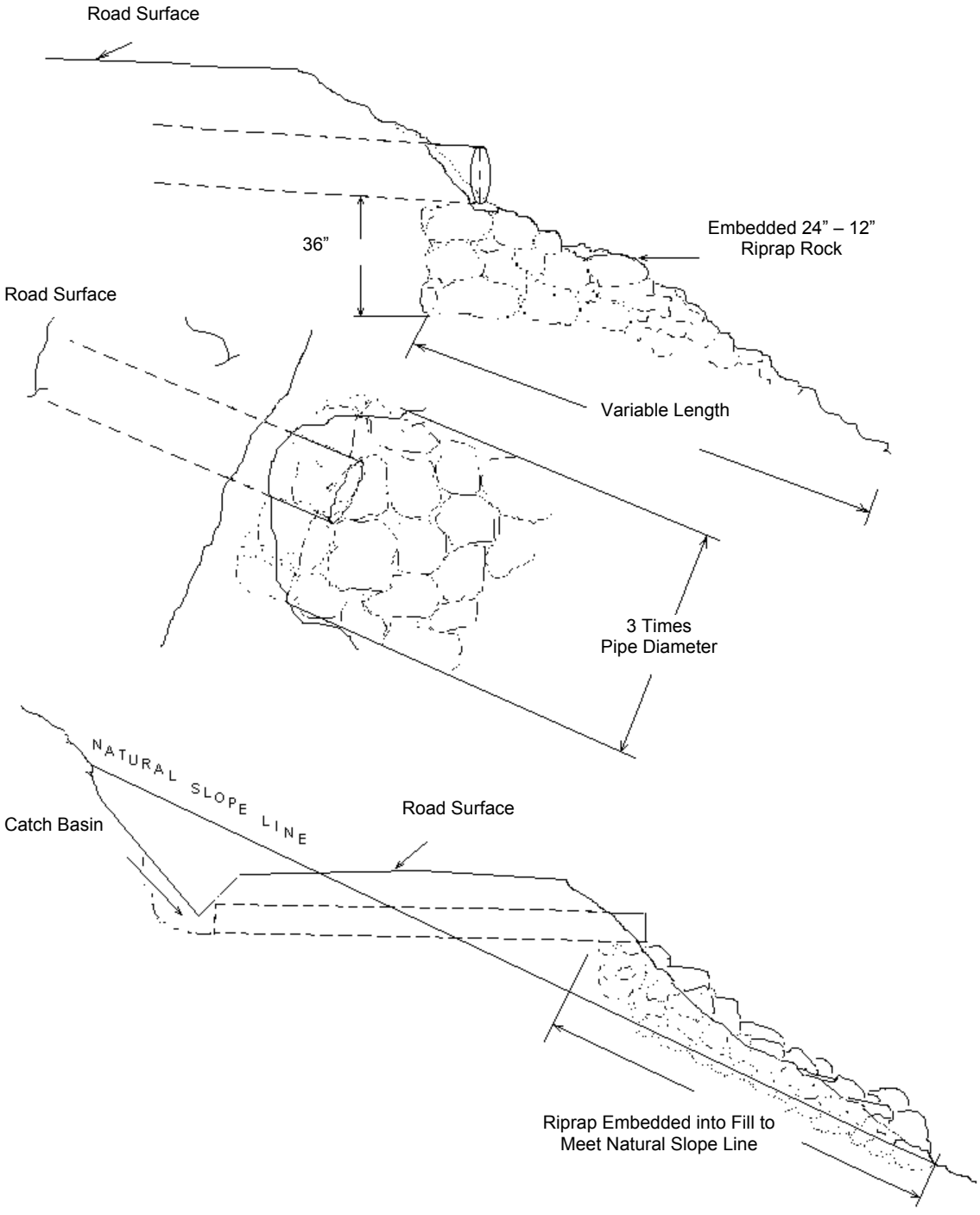

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EXHIBIT "F"

SEEDING AND FERTILIZING

This work shall consist of preparing seedbeds and furnishing and placing required seed and fertilizer.

Seeding Seasons. Seeding shall be performed only from March 1 through June 15 and August 15 through October 31. Seeding materials shall not be applied during windy weather or when the ground is excessively wet or frozen. Areas of disturbed soil shall be seeded by the end of the project period in which work was started. PURCHASER shall notify STATE 24 hours prior to seeding.

Soil Preparation. Areas to be seeded that have been damaged by erosion or other causes shall be restored prior to seeding. All areas to be seeded shall be finished and then cultivated to provide a reasonably firm, but friable seedbed. A minimum of 1/2 inch of surface soil shall be in a loose condition.

Application Methods for Seed and Fertilizer

Dry Method. Mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment shall be used to apply the seed and fertilizer in the amounts and mixtures specified. Hand-operated seeding devices may be used when seed and fertilizer are applied in dry form.

Application Rates for Seed and Fertilizer

Seed listed below shall be applied at the following rates per acre:

SPECIES	LB./ACRE	MIXTURE	PURE LIVE SEED	POISON AND/OR REPELLENT
Highland Bentgrass	12	40%	98%	0
Annual Ryegrass	9	30%	98%	0
Perennial Ryegrass	9	30%	98%	0

Fertilizer: Chemical analysis shall be 16-20-0 and shall be applied at the rate of 300 pounds per acre.

EXHIBIT “G”

SPECIFICATIONS FOR SLASH TREATMENT

Description of Work To Be Done

Operation Area: The timber sale area as indicated on Exhibit A; approximately 48 hours of machine time.

Slash Treatment: Develop planting spots in the following manner, and as directed by STATE:

> Planting Spot Development. Move brush and/or woody slash to create openings as planting spots in the slash and brush. Planting spots shall be 2 feet by 2 feet in size and shall be on a 11 foot by 11 foot spacing. Care shall be taken to avoid creating a depression in the soil of the planting spot. Spacing may be varied to accommodate stumps, large woody material, rocky areas, etc., but 360 planting spots per acre are still required.

Protective Measures: Shall comply with applicable Forest Practice Rules and with the terms of this contract including, but not limited to, Section 61, "Ground-Based Operations," and Section 62, "Protection of Watershed."

EXHIBIT “G“

SPECIFICATIONS FOR SLASH TREATMENT

Equipment Type, Equipment Operation, and Conduct of Work

The specifications given below are requirements for complying with the terms of this contract:

Equipment: Shall be a track-mounted machine with a ground-pressure rating of less than 10 PSI and a net horsepower rating of 135 HP or more.

The bucket shall be a hydraulically controlled “clamshell,” bucket and thumb, or grapple arrangement capable of rotating 360 degrees.

Operator: Must be experienced in operating similar equipment on forest site preparation operations, be able to operate the equipment proficiently, and be willing and able to perform the operations as directed by STATE.

Support: Including transport, other equipment, replacements, supplies, maintenance, and repairs shall be furnished as required to complete work and shall be furnished without cost to STATE, other than as agreed under the terms of this contract.

Work Scheduling: Work shall be accomplished only during dry weather conditions and completed within 30 calendar days after completion of yarding activities on the timber sale area. Operations shall provide for continual operation until contract work is completed, unless interrupted by poor weather, fire closures, or other uncontrollable circumstances. Equipment breakdowns shall be repaired without undue delay, and provision shall be made for replacement of equipment to prevent prolonged delays. Operations shall not be allowed as described in Section 39 (Seasonal Restrictions) of the contract, or during any other period when operations might damage sites or affect stream flows. Any exception to these instructions must be authorized in writing by STATE.

STATE Representative: Designated to provide directions for the conduct of work and to inspect work to determine when contract requirements have been satisfied.

EXHIBIT "H"
OREGON DEPARTMENT OF FORESTRY

SCALING INSTRUCTIONS -- LOCATION APPROVAL -- BRAND INFORMATION

(1) ORIGINAL REGISTRATION ☐ Date _____
REVISION NUMBER _____ ☐ Date _____
CANCELLATION ☐ Date _____

(2) TO: _____
(Third Party Scaling Organization)

(3) FROM: Forest Grove Phone (503) 357-2191
(State Forestry District)
Address 801 Gales Creek Road, Forest Grove, OR 97116-1199

(4) PURCHASER: _____
Address _____

(5) **MINIMUM SCALING SPECIFICATIONS**			**CLASS**		
SPECIES	SCALING DIAMETER INCHES	*NET SCALE VOLUME	PER MBF	** SUM	SUB
Conifers		10	X		
Hardwoods		10	X		

* Apply minimum volume test to whole logs over 40' Westside; 20' Eastside.
** Sum (if indicated): see instructions and explain in Item (20).

	YES	NO
(6) WESTSIDE SCALE: Actual taper all logs over 40' scaling length	☒	☐
(7) EASTSIDE SCALE: *Actual taper butt logs over 40' scaling length	☐	☒
(8) PENCIL BUCK back to Minimum Scaling Diameter _____	☐	☒
(9) ADD-BACK VOLUME -- Deductions due to delay	☒	☐

(10) **APPROVED SCALING LOCATIONS**	**Species**	**Yard**	**Truck**

(11) NOTICE OF CANCELLATION OF BRAND:
Effective Date: _____

_____
State Forester's Representative

(12) SALE NAME T. Wally Thin
COUNTY Washington

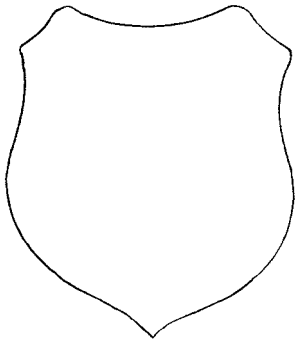
(13) STATE CONTRACT NUMBER 341-03-19

(14) SCALE: westside ☒ eastside ☐ cubic foot ☐

(15) STATE BRAND REGISTRATION NUMBER _____

(16) BUREAU BRAND CODE NUMBER _____

(17) STATE BRAND INFORMATION:
(COMPLETE)



(18) PAINT REQUIRED: YES ☒
COLOR Orange

(19) SPECIAL SCALES
PEELABLE CULL (all species)
UTILITY/PULP (all species)
NO DEDUCTIONS ALLOWED FOR MECHANICAL DAMAGE
OTHER: _____
OTHER: _____

(20) REMARKS: _____

Operator's Name (Optional inclusion by District): _____

(21) SIGNATURES:

_____
Purchaser or Authorized Representative Date

_____
State Forester Representative Date

Distribution: ORIGINAL: Salem / COPIES: TPSO (4), Purchaser, Operator, District, Mgmt. Unit

EXHIBIT “H“

INSTRUCTIONS FOR FORM 343-307 (rev. 5/01)

(1) Check appropriate box. REVISION NUMBER requires comments. CANCELLATION requires Item (21). Complete date.

(2) Designate Third Party Scaling Organization (TPSO). Send 4 copies to TPSO, 1 to purchaser, 1 to Salem, and keep such copies as to district needs.

(3) State District office, address and phone.

(4) Enter Purchaser's business name and address as it appears on the contract.

(5) Minimum Scaling Specifications. Review Section 45, "Log Removal," of the contract. Species, or combined species can be separate entries. Information serves as a basis for scaling (see also Items (13) thru (17)), and is required to show existence on the sale. **PerM** (per mbf). **SUM** (lump sum material). **SUB** (submerchantable material. SUB, as used by the State, references that material containing at least 10 bf (net) but less than the lower merchantable net volume limit or grade requirements for other merchantable (PerM) entries. PerM, SUM, and SUB must be indicated by checking the appropriate column. Species with the same specifications and value are combined into one entry. PerM and SUB require scaling therefore complete specifications. SUM need not be scaled, hence no specifications. Loads containing only SUM are to be ticketed if so instructed in Item (19). Mixed loads of SUM, PERM and/or SUB species will always be scaled.

(6) Westside -- actual taper segment scale. Check Yes or No. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Westside).

(7) Eastside -- actual taper/taper table segment scale. Special Service Rules on file with TPSO. See: Segment Scaling and Grading of Long Logs -- All Species -- State Forestry Department Scaling Practices (Eastside). Items with * follow U.S. Forest Service Eastside rules.

(8) Pencil Buck. Check NO if a westside sale, optional for eastside sales.

(9) Add-Back Volume. Add-Back is normally checked YES. Scaler records deductions (sap rot, weather checks, etc.) caused by an abnormal delay in removal. Enter separately on scale ticket. TPSO provides State with summaries that include this as a net volume by species. Salvage sales and certain other circumstances may require that "NO" be checked.

(10) Show scaling locations only applicable to TPSO. Not necessary to list markets. If all species are scaled at same location, enter "ALL."

(11) When logging is complete, recall branding hammers, date and sign where indicated, check CANCELLATION box at top of form, and send to TPSO.

(12) Enter sale name and county.

(13) Enter sale contract number.

(14) Check Westside or Eastside log scale. Cubic foot refers to Northwest Log Rules Cubic Foot Scale.

(15) Oregon Forest Products Brand Registry Number (optional).

(16) DO NOT USE -- TPSO will fill in when applicable.

(17) Show one brand only. Complete drawing. If more than one brand is assigned to the sale, (1) make separate form for each brand, and (2) on each form, explain and show other brand(s) under REMARKS, Item 19.

(18) Check YES and designate orange.

(19) Special Scales. These are the Special Scales that will be applied. If "Other" is indicated, please describe. Give comments in Item (19).

(20) Use this space to designate weight conversion factors, or any other explanations to clarify scaling requirements. If additional scaling locations are approved, prepare another form showing all (old and new) locations. Check REVISION box at top of form and explain under remarks. Route as indicated.

(21) Require purchaser to sign and date completed form.